





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue Appl. No.

09/590,584

Filed

June 8, 2000

In re Patent to

Tai A. Ly et al.

Patent No.

5,764,951

Issued

June 9, 1998

Title

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Julio 7, 1770

METHODS FOR AUTOMATICALLY PIPELINING LOOPS

Box REISSUE

Assistant Commissioner for Patents

Washington, D.C. 20231

DECLARATION OF INVENTOR TAI A. LY IN APPLICATION FOR BROADENING REISSUE OF PATENT

Pursuant to 37 CFR 1.63 and 1.175

This declaration is made in application for broadening reissue of the above-identified patent.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHODS FOR AUTOMATICALLY PIPELINING LOOPS

the specification of which: (check one)

is attached hereto; or

was filed on June 8, 2000 as U.S. Reissue Application Serial No. 09/590,584.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.







I believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below:
 □ by reason of a defective specification or drawing. ⋈ by reason of the patentee claiming more or less than he had the right to claim in the patent. □ by reason of other errors.

At least one error upon which this application for reissue is based is described as follows:

The limitation of claim 1 to methods comprising steps of parsing text descriptions including loops with delayed signal assignments having delay values and setting latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

The limitation of claim 18 to systems comprising logic for parsing text descriptions including loops with delayed signal assignments having delay values and setting latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

The limitation of claim 21 to computer program products comprising computer readable program code devices configured to cause a computer effect parsing of text descriptions including loops with delayed signal assignments having delay values and setting of latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

All errors being corrected in this reissue application arose without any deceptive intention on the part of the applicant.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First Joint Inventor Tai A. Ly				
Inventor's Signature		Date 8/16/2000,		
Residence	US —	Citizenship Canada		
Post Office Address	1620 Campbell Avenue, San Jose, California 95125			







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METHODS FOR AUTOMATICALLY PIPELINING LOOPS

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Assistant Commissioner for Patents

Washington, D.C. 20231

DECLARATION OF INVENTOR RONALD A. MILLER IN APPLICATION FOR BROADENING REISSUE OF PATENT

Pursuant to 37 CFR 1.63 and 1.175

This declaration is made in application for broadening reissue of the above-identified patent.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHODS FOR AUTOMATICALLY PIPELINING LOOPS

the	e specification of which: <i>(check one)</i>	
	is attached hereto; or	
冈	was filed on June 8, 2000 as U.S. Reissue Application Serial No.	09/590,584

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.





I believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below:
 □ by reason of a defective specification or drawing. □ by reason of the patentee claiming more or less than he had the right to claim in the patent. □ by reason of other errors.

At least one error upon which this application for reissue is based is described as follows:

The limitation of claim 1 to methods comprising steps of parsing text descriptions including loops with delayed signal assignments having delay values and setting latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

The limitation of claim 18 to systems comprising logic for parsing text descriptions including loops with delayed signal assignments having delay values and setting latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

The limitation of claim 21 to computer program products comprising computer readable program code devices configured to cause a computer effect parsing of text descriptions including loops with delayed signal assignments having delay values and setting of latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

All errors being corrected in this reissue application arose without any deceptive intention on the part of the applicant.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First Joint Inventor		Ronald A. Miller			
Inventor's Signature	ture Romale a him		Date	Aug	ust 7, 2000
Residence	ÚS		Citizensh	ip	Canada
Post Office Address	21957 Oakleaf Court, Cupertino, California 95014				







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June 2, 1270

METHODS FOR AUTOMATICALLY PIPELINING LOOPS

Box REISSUE

Assistant Commissioner for Patents

Washington, D.C. 20231

<u>DECLARATION OF INVENTOR DONALD B. MACMILLEN IN APPLICATION</u> <u>FOR BROADENING REISSUE OF PATENT</u>

Pursuant to 37 CFR 1.63 and 1.175

This declaration is made in application for broadening reissue of the above-identified patent.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHODS FOR AUTOMATICALLY PIPELINING LOOPS

the	e specification of which: (check one)
	is attached hereto; or
Ż	was filed on June 8, 2000 as U.S. Reissue Application Serial No. 09/590,584.

I hereby state that I have reviewed and understand the contents of the above identifie

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.





I believe the original patent to be who below:	lly or partly inoperative or invalid, for the reasons described
□ by reason of a defective specificati□ by reason of the patentee claiming□ by reason of other errors.	on or drawing. more or less than he had the right to claim in the patent.

At least one error upon which this application for reissue is based is described as follows:

The limitation of claim 1 to methods comprising steps of parsing text descriptions including loops with delayed signal assignments having delay values and setting latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

The limitation of claim 18 to systems comprising logic for parsing text descriptions including loops with delayed signal assignments having delay values and setting latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

The limitation of claim 21 to computer program products comprising computer readable program code devices configured to cause a computer effect parsing of text descriptions including loops with delayed signal assignments having delay values and setting of latencies of pipelines equal to said delay values is more limiting than necessary, and resulted in the patentee claiming less than he had a right to claim.

All errors being corrected in this reissue application arose without any deceptive intention on the part of the applicant.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Fourth Joint Inventor		Donald B. Macmillen		
Inventor's Signature	Donald B.	MacVillen	Date	14 aug \$\$
Residence	US		Citizensh	ip U8
Post Office Address	2054 Seabrook Court, Redwood City, CA 94065			









IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue of Patent

5,764,951, Tai A. Ly et al.

Reissue Serial No.

09/590,584

Filed

June 8, 2000

Title

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Box REISSUE Assistant Commissioner for Patents Washington, D.C. 20231

COMBINED CONSENT OF ASSIGNEE AND FILING PURSUANT TO 37 CFR 3.73(b) WITH POWER OF ATTORNEY

In Application for Broadening Reissue Pursuant to 37 CFR 1.171 et seq.

This is part of the application filed June 8, 2000 for broadening reissue of the above-identified United States Patent. The undersigned Applicant is assignee of the entire interest in the original patent and consents to the filing of this application for broadening reissue.

Applicant Synopsys, Inc., is a corporation organized under the laws of the state of Delaware and having offices at 700 East Middlefield Road, Mountain View, California, 94043-4033. Applicant is owner of the entire interest in the patent which is the subject of the proceedings herein pursuant to that assignment recorded at reel 7584, frame 0017 of the records of the United States Patent and Trademark Office on July 17, 1995. A copy of that assignment is attached hereto.

Applicant hereby appoints the following attorney(s) or agent(s), of the law firm Brown Raysman Millstein Felder & Steiner LLP, 120 West Forty-Fifth Street, New York, New York, 10036, its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Jonathan T. Kaplan, Reg. No. 38,935 Seth H. Ostrow, Reg. No. 37,410 Anthony J. Natoli, Reg. No. 36,223 Katrine A. Levin, Reg. No. 41,941 Michael Malish, Reg. No. 41,968 Frank J. DeRosa, Reg. No. 26,543 Louis J. Greco, Reg. No. 41,799 Matthew J. Marquardt, Reg. No. 40,997 Frederick Yu, Reg. No. 45,251 Michael K. Kinney, Reg. No. 42,740 Please direct all correspondence to:

Brown Raysman Millstein Felder & Steiner LLP 120 West 45th Street New York, New York 10036

Direct all telephone calls to:

(212) 944-1515

The undersigned individual declares that he is authorized to execute this document on behalf of Applicant.

Respectfully submitted,

Applicant Synopsys, Inc.

by

Date: 7/26 .2000

Roger/M. Klein

Deputy General Counsel





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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DECEMBER 19, 1995

PTAS

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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

ELEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE FATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/17/1995

REEL/FRAME: 7584/0017

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

(0 **ASSIGNOR:**

LY, TAI A.

DOC DATE: 06/19/1995

ASSIGNOR:

KNAPP, DAVID W.

DOC DATE: 06/16/1995

ASSIGNOR:

MACMILLEN, DONALD B.

DOC DATE: 06/19/1995

ASSIGNOR:

MILLER, RONALD A.

DOC DATE: 06/19/1995

ASSIGNEE:

SYNOSPSY, INC.
700 EAST MIDDLEFIELD ROAD
MOUNTAIN VIEW, CALIFORNIA
94043-4033

SERIAL NUMBER: 08440554

PATENT NUMBER:

FILING DATE: 05/12/1995

ISSUE DATE:

DATES ENTERED:
